



**USUAL OPEN - HOLE TEST EVALUATION
SOUTH FLORIDA WATER MANAGEMENT METHOD**

Client:	SFWMD	Test No.:	W-6	Date:	08/13/13
Project:	C-139 Annex Restoration	Well Depth:	10.0 Feet	Analyst:	RK
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	3.40	3.40
2	6.80	3.40
3	10.20	3.40
4	13.60	3.40
5	17.00	3.40
6	20.40	3.40
7	23.80	3.40
8	27.20	3.40
9	30.60	3.40
10	34.00	3.40
11	37.40	3.40
12	40.8	3.40
13	44.2	3.40
14	47.6	3.40
15	51.0	3.40
Constant Flow Rate (gpm)		3.40

Equation for K Value: $\frac{4Q}{\pi \cdot d(2H_2^2 + 4H_2D_s + H_2d)}$

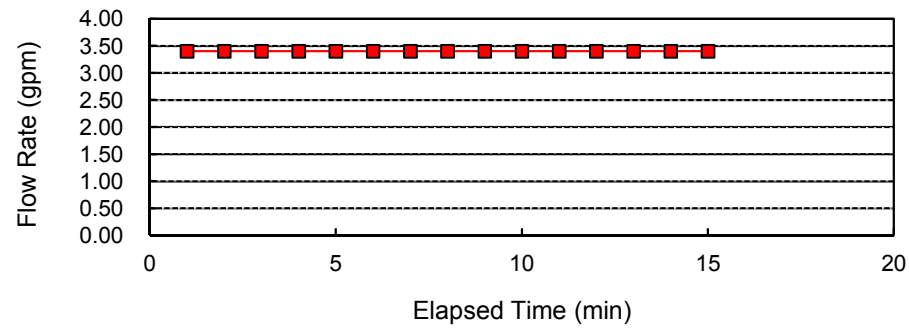
Soil Profile
0-8' Sand (SP)
8'-30' Sand (SP)

k = 1.86E-04 CF/S/Ft² - Ft Head
H₂ = 3.00 Ft Hydraulic Head

Where: **Hydraulic Conductivity**

K= 1.86E-04 CF/S/Ft² - Ft Head

Flow Rate vs Elapsed Time



Ds= 7 ft
d= 0.5 ft
GWT= 3.00 ft



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SOUTH FLORIDA WATER MANAGEMENT METHOD**

Client:	SFWMD	Test No.:	W-6	Date:	08/13/13
Project:	C-139 Annex Restoration	Well Depth:	15.0 Feet	Analyst:	RK
Job No.:	7111-13-142	Location:	Hendry County		

Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	5.00	5.00
2	10.10	5.10
3	15.20	5.10
4	20.30	5.10
5	25.40	5.10
6	30.50	5.10
7	35.60	5.10
8	40.20	4.60
9	45.80	5.60
10	50.90	5.10
11	56.00	5.10
12	61.0	5.00
13	66.1	5.10
14	71.1	5.00
15	76.3	5.20
Constant Flow Rate (gpm)		5.09

Equation for K Value: $\frac{4Q}{\pi \cdot d (4H_2Ds + H_2d)}$

Soil Profile
0-8' Sand (SP)
8'-30' Sand (SP)

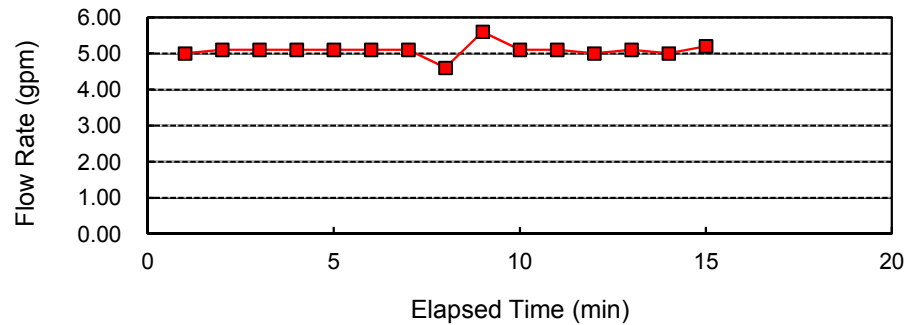
k = 4.79E-04 CF/S/Ft² - Ft Head
H₂ = 3.00 Ft Hydraulic Head

Where:

Hydraulic Conductivity

K= 4.79E-04 CF/S/Ft² - Ft Head

Flow Rate vs Elapsed Time



Ds= 4.9 ft
d= 0.5 ft
GWT= 3.00 ft



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Client:	<u>SFWMD</u>	Test No.:	<u>W-6</u>	Date:	<u>08/13/13</u>
Project:	<u>C-139 Annex Restoration</u>	Well Depth:	<u>25.0</u> Feet	Analyst:	<u>RK</u>
Job No.:	<u>7111-13-142</u>	Location:	<u>Hendry County</u>		

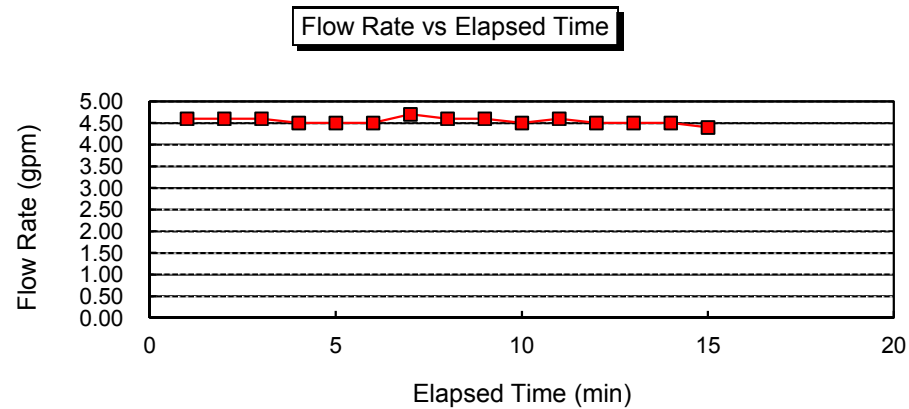
Elapsed Time (min)	Reading	Flow Rate (gpm)
0	0.00	0.00
1	4.60	4.60
2	9.20	4.60
3	13.80	4.60
4	18.30	4.50
5	22.80	4.50
6	27.30	4.50
7	32.00	4.70
8	36.60	4.60
9	41.20	4.60
10	45.70	4.50
11	50.30	4.60
12	54.8	4.50
13	59.3	4.50
14	63.8	4.50
15	68.2	4.40
Constant Flow Rate (gpm)		4.55

Equation for K Value: $\frac{4Q}{\pi \cdot d (4H_2Ds + H_2d)}$

Soil Profile
0-8' Sand (SP)
8'-30' Sand (SP)

k = $2.17E-04$ CF/S/Ft² - Ft Head
H₂ = 3.00 Ft Hydraulic Head

Where: **Hydraulic Conductivity**
K = 2.17E-04 CF/S/Ft² - Ft Head



Ds= 9.8 ft
d= 0.5 ft
GWT= 3.00 ft